

Acceptance of Limited Water Supply Design

Landowner Name: _____

Site Location: _____ Date: _____

The Minnesota Natural Resources Conservation Service (NRCS) has a conservation practice standard, 432–Dry Hydrants that states the criteria for design of a dry hydrant. This standard has minimum requirements for the depth of water in the water body required to assure availability of water 365 days per year, 24 hours per day. This standard can be difficult to meet.

NRCS will provide assistance for designing a dry hydrant that does not comply with the Minnesota criteria in MN Practice Standard 432 if the cooperators agree that they understand the situation and accept responsibility for the lesser design by signing this document.

This lesser design may involve inadequate depth of water in the event of a 50 year drought or a 50 year freeze condition. This may involve inability to obtain the minimum pumping rate normally recommended. It may involve other water supply conditions, known or unknown. The local fire department shall be fully informed of the dry hydrant's design. Limitations in the system are documented in the operation and maintenance plan.

Reducing the minimum depth requirements between the normal water level and the top of the intake screen reduces the design frequency for the drought and freeze conditions and may make the dry hydrant system unacceptable for insurance premium discounts.

The following statement appears on the engineering plan and is acknowledged here: **“This facility is designed to provide an emergency water supply during a fire; however, the pond depth and/or available water volume are not sufficient to meet the recommended usable depth of water source stated in section B-5.3.2 of the National Fire Protection Association’s (NFPA) 1142 document.”**

The conditions on this site do not allow the dry hydrant installation to conform to the water supply reliability criteria in MN Practice Standard 432. The limitations of the system have been explained to me, the landowner, and I accept responsibility for the system.

Landowner

Date

NRCS Representative

Date

Notes: